

Rachel Liao

DATA SCIENTIST

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PROFILE

As a skilled Accounting & Operations Professional with a passion for data science, I have consistently excelled in managing, maintaining, and analyzing data to drive informed decision-making. With a proven track record as a founding employee in two successful startup operations, I have fostered collaboration among global teams, resulting in increased productivity and positive business outcomes. I am now leveraging my transferable skills and knowledge to transition into data science, with a focus on machine learning and predictive analytics.

SKILLS

Python, R, SQL, NumPy, Pandas, Hypothesis Testing, A/B tests, Parametric and non-Parametric tests, Tableau, Matplotlib, Plotly, Seaborn, SciPy, Machine Learning in TensorFlow, Scikit-learn, XGBoost, PyTorch, AWS, Hadoop, Spark, Hive, Docker

EXPERIENCE

Career Break

JUL 2019 - MAY 2023, VANCOUVER, BC

- **Continued Professional Development:** Prioritized family well-being while actively enhancing skills in programming and data analysis through independent learning and completion of online courses.

International Expansion Lead | Resilience Technology

FEB 2019 - JUN 2019, HONG KONG

- **Project Management:** Led the establishment of an overseas subsidiary, and optimized office setups and operations based on data-driven insights, resulting in a smooth international expansion.
- **Data Accuracy & Compliance:** Managed accounting records for both subsidiary and holding companies, ensuring precise financial reporting and strict adherence to compliance regulations for combined assets valued at over \$15M.
- **Stakeholder Engagement:** Fostered strong relationships with esteemed local professionals, leveraging data analysis and insights to streamline operations and ensure 100% compliance with local policies.

Accounting & Operations Specialist | Grit Investments

JUN 2017 - FEB 2019, VANCOUVER, BC

- **Operations Management:** Oversaw all aspects of office operations, utilizing data-driven strategies to optimize efficiency. Facilitated a 50% office expansion and played a pivotal role in recruiting and onboarding processes.
- **Financial Analysis:** Collaborated closely with the CFO on critical accounting and financial reporting, conducting thorough data analysis of accounts for combined assets exceeding \$13M.
- **Collaboration & Problem-Solving:** Orchestrated seamless collaboration within global teams, employing data-informed decision-making processes to establish robust relationships and ensure timely resolution of issues within a 48-hour timeframe.

EDUCATION

BrainStation | Diploma in Data Science

MAY 2023 - AUG 2023, VANCOUVER, BC

University of British Columbia | Diploma in Accounting

SEPT 2016 - MAY 2017, VANCOUVER, BC

University of British Columbia | B.S. in Food Market Analysis

SEPT 2011 - MAY 2016, VANCOUVER, BC

- Graduated with Honours
- Direct entry (91% average) with early acceptance and scholarship

PROJECTS

Data Analyst | Predictive Analysis of West Nile Virus Spread

JUNE 2023, BRAINSTATION

- Analyzed West Nile Virus spread based on mosquito tracking data through extensive exploratory data analysis and visualizations in Python, various hypothesis and correlation testings including t-test and Chi-square test, and regression predictive modeling.

Data Scientist | Sentiment Analysis on Hotel Reviews

JULY 2023, BRAINSTATION

- Implemented topic modeling and sentiment analysis of user reviews focusing on feature engineering, natural language processing techniques, and classification models to gain insights into user behaviour to improve conversion rate.